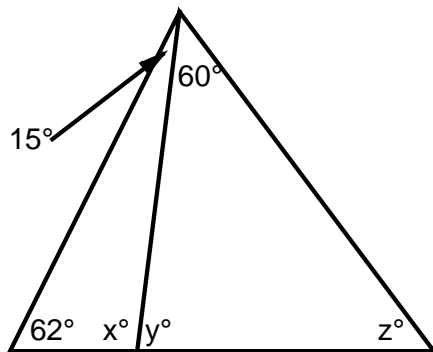


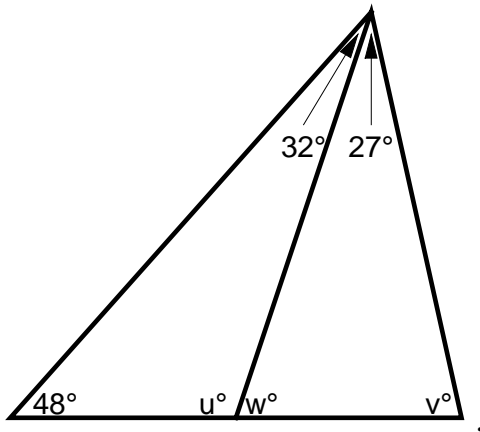
## Worksheet 5.1: Angles of a Triangle

Find the values of the variables.

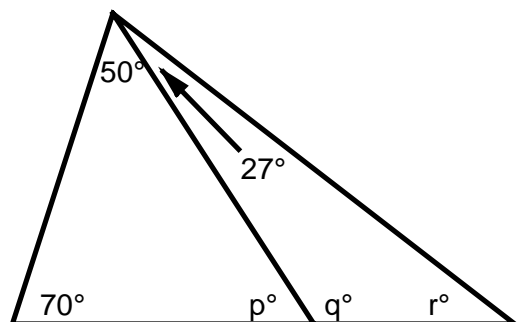
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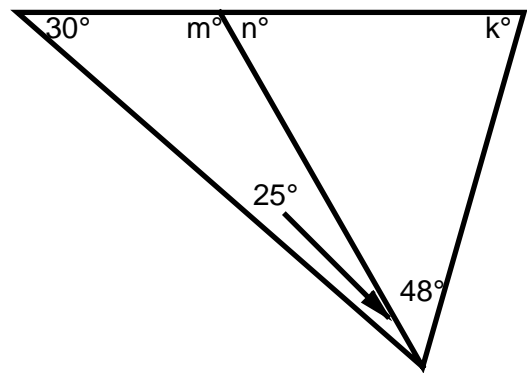
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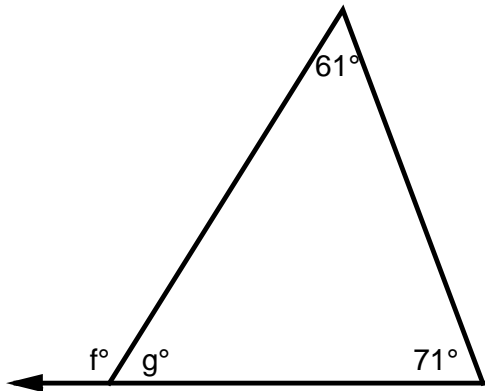
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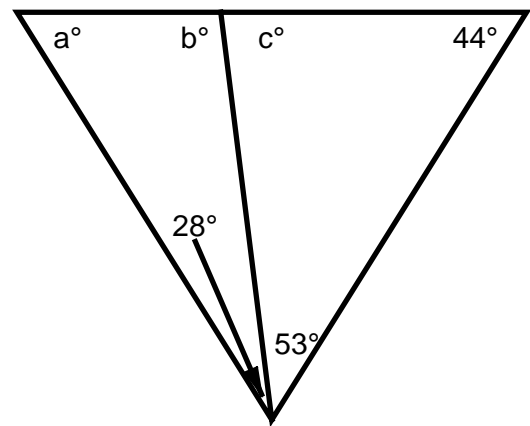
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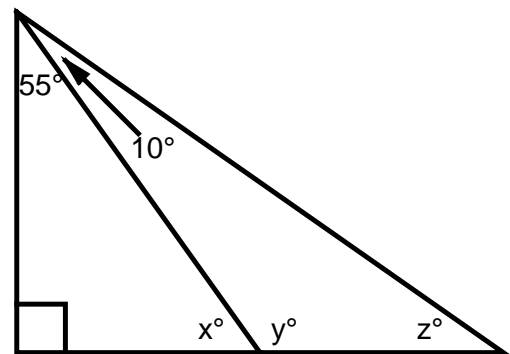
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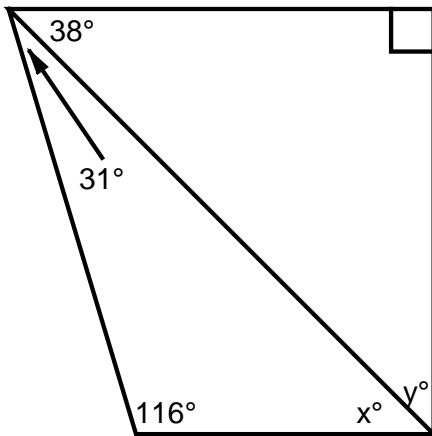
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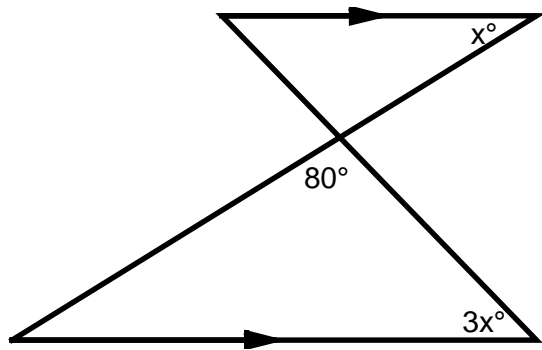
7.



8



9.



10. What is the measure of each angle of an equiangular triangle? Explain.
11. Is every equilateral triangle isosceles? Is every isosceles triangle equilateral? Explain.
12. The measure of one angle of a triangle is 115. The other two angles are congruent. Find their measures.
13. A right triangle has acute angles whose measures are in the ratio 1 : 2. Find the measures of these angles.
14. Two angles of a triangle measure 64 and 48. Find the measure of the largest exterior angle. Explain.
15. The ratio of the angle measures in  $\triangle BCR$  is 2 : 3 : 4. Find the angle measures. What type of triangle is  $\triangle BCR$ ?